



SLOVENSKI STANDARD
SIST EN 994:1999

01-marec-1999

Tekstilne talne obloge - Ugotavljanje stranske dolžine, ravnosti robov in pravokotnosti plošč

Textiles floor coverings - Determination of the side length, squareness and straightness of tiles

Textile Bodenbeläge - Bestimmung der Länge und Geradheit der Kanten und der Rechtwinkligkeit von Fliesen

Revetements de sol textiles - Détermination de la longueur et de la rectitude des arêtes et de l'équerrage des dalles

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Ta slovenski standard je istoveten z: EN 994:1995

ICS:

59.080.60 Tekstilne talne obloge Textile floor coverings

SIST EN 994:1999 **en**

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EUROPEAN STANDARD

EN 994

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 1995

ICS 59.080.60

Descriptors: textiles, floor coverings, textile floor coverings, floor tiles, determination, dimension, length, squaring

English version

Textile floor coverings - Determination of the side length, squareness and straightness of tiles

Revêtements de sol textiles - Détermination de la longueur et de la rectitude des arêtes et de l'équerrage des dalles

Textile Bodenbeläge - Bestimmung der Länge und Geradheit der Kanten und der Rechtwinkligkeit von Fliesen

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 134 "Resilient and textile floor coverings", of which the secretariat is held by BSI.

This European Standard shall be given the status of a National Standard, either by publication of an identical text or by endorsement, at the latest by January 1996, and conflicting national standards shall be withdrawn at the latest by January 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European Standard specifies a method for determining the length and straightness of the edges and the squareness of floor coverings in the form of right-angled tiles.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 20139:1992 Textiles - Standard atmospheres for conditioning and testing (ISO 139:1973)

3 Principle

The plane dimensions of a tile are measured at different points for each direction. In addition, at each corner of the tile the maximum deviation from the right angle is measured.

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4 Apparatus <https://standards.iteh.ai/catalog/standards/sist/3ed12ca4-cdf5-404a-a0d6-f232c6c411dd/sist-en-994-1999>

4.1 Length

4.1.1 Device which can be used to measure a dimension to an accuracy of 0,05 mm such as a slide gauge, comparator table with stop or an opto-electronic system.

4.1.2 Flat support plate, onto which the test specimen is placed for measurement. It shall be slightly bigger than the test specimen.

4.1.3 Rigid metal or glass plate, slightly smaller than the tile or any other device which can be used to hold the tile flat during measurement.

4.2 Squareness

4.2.1 Precision square or any other device, for example an opto-electronic system which can be used to measure a right angle or angular deviation to an accuracy of at least 0,2 mm. If a square is used, it shall meet the following requirements :

a) the length of one of the straight edges shall be at least equal to the largest dimension of the tile to be checked, the second straight edge being not greater than $2/3$ of this dimension;

b) the linearity error of the straight edges shall be less than or equal to 0,01 mm;

c) the angular error shall be less than or equal to 0,02 mm at 300 mm.

4.2.2 Flat surface as described in 4.1.2.

4.2.3 Rigid plate as described in 4.1.3.

4.2.4 Set of shims, including 0,2 mm to 2,0 mm shims.

5 Sampling and preparation of test specimens

Take at least five tiles from each sample to represent the test specimens. If the sample comprises a pack of tiles, ensure that the first and last tiles are not used as test specimens.

6 Conditioning

Condition the tiles in the standard atmosphere for testing textiles as defined in EN 20139 for at least 24 h.

Conduct the tests in this atmosphere.

7 Test method

7.1 Length

Holding the test specimen flat using the rigid plate (4.1.3), measure the distance between the edges parallel to the direction of manufacture, then between the edges perpendicular to the direction of manufacture, at at least two different points.

If a different device is used, proceed as appropriate.

7.2 Squareness and straightness

Place the tile with its back against the flat support plate.

Place one edge of test specimen against a straight edge of the square or appropriate device and slide it until it makes contact with the other straight edge, then position the rigid plate without moving the tile.

Select the thickest shim which can be easily inserted between the second straight edge of the square and the end of the edge of the tile to evaluate the squareness deviation (see figures 1 and 2). Find the thickest shim which can easily be inserted at any point between the second straight edge of the square and the tile to evaluate the straightness of the edges (see figure 3).

Repeat this procedure for the three other test specimen edges.

If a different device is used, proceed as appropriate.

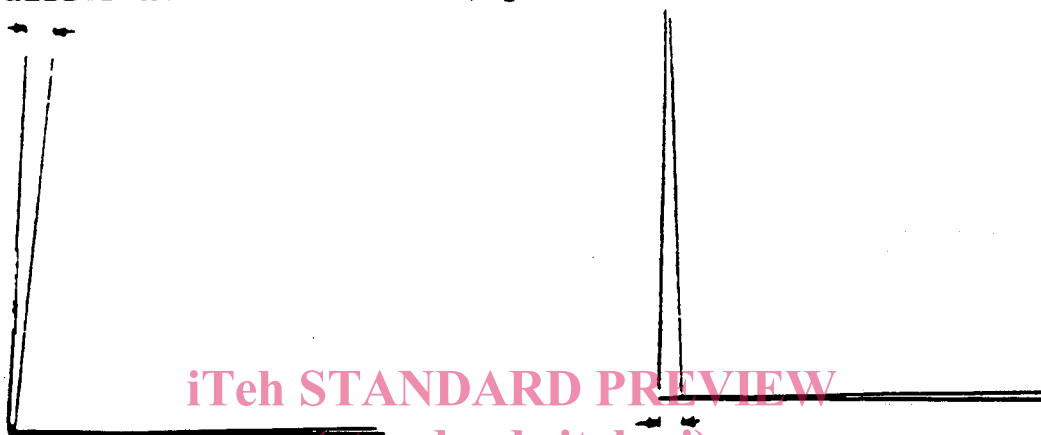


Figure 1 : Squareness

Figure 2 : Squareness

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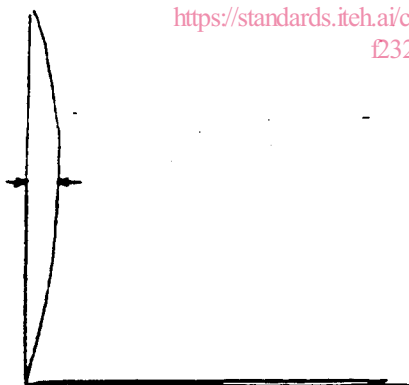


Figure 3 : Straightness

8 Calculation and expression of results

8.1 Length

For each tile and each direction, calculate the average of the measurements taken. Express the length of the edge by the result obtained in millimetres to one decimal place.

8.2 Squareness and straightness

Express the maximum deviation for each edge of each tile in millimetres to an accuracy of 0,05 mm.

- a) for the end of the edge for squareness;
- b) at any point of the edge for straightness.

Note the biggest deviation of a) or b) for each side.

9 Test report

The test report shall include the following information :

- a) reference to this standard, ie EN 994;
- b) complete identification of the product tested, including the type, origin, manufacturer's reference numbers;
- c) details of the sample;
- d) the number of test specimens (tiles) submitted for testing;
- e) the average general length for each direction;
- f) the difference between the smallest and largest average length for each direction;
- g) the value of the deviation for each edge of each tile and if this relates to squareness or straightness;
- h) any deviation from this standard which is likely to have affected the results.